Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-02-02-02 **Date: 07/02/2018**

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Surabhi layout charch road and surrounding areas in Ward no.01 of Yelahanka Sub division.

Agency : Sri.B.P. Mahesh, No.58 B.P. Linganna Building, 7th cross, Chandramouleshwara layout, Hunasamaranahalli, Bangalore-562157.

Customer's Reference : EE(YNK.D)E-PMT-15/W.O/104/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-02-18

Sample ID No : 2018-02-02-02/01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	31/01/2018	07/02/2018	149.54 X 150.55 X 150.28	22513	8.196	378.2	16.8	16.8
2	M20 Concrete	M20	31/01/2018	07/02/2018	150.65 X 150.53 X 151.05	22677	8.276	374.2	16.5	
3	M20 Concrete	M20	31/01/2018	07/02/2018	150.86 X 149.22 X 150.83	22511	8.153	384.9	17.1	

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/02/2018

Lab ID	:	**CP-2018-02-02-02**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi layout charch road and surrounding areas in Ward no.01 of Yelahanka Sub division.
Agency	:	Sri.B.P. Mahesh, No.58 B.P. Linganna Building, 7th cross, Chandramouleshwara layout, Hunasamaranahalli, Bangalore-562157.
Customer's Reference	:	EE(YNK.D)E-PMT-15/W.O/104/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-02-18
Sample ID No	:	2018-02-02-02/02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	31/01/2018	28/02/2018	150.32 X 150.42 X 150.22	22611	8.155	468.1	20.7	21.0
2	M20 Concrete	M20	31/01/2018	28/02/2018	150.76 X 149.20 X 149.66	22493	8.165	479.1	21.3	
3	M20 Concrete	M20	31/01/2018	28/02/2018	150.54 X 150.28 X 151.01	22623	8.154	477.3	21.1	

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-01-22-05**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi layout charch road and surrounding areas in Ward no.01 of Yelahanka Sub division.
Agency	:	Sri.B.P. Mahesh, No.58 B.P. Linganna Building, 7th cross, Chandramouleshwara layout, Hunasamaranahalli, Bangalore-562157.
Customer's Reference	:	EE(YNK.D)E-PMT-15/W.O/104/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-18
Sample ID No	:	2018-01-22-05/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	22-01-18
Total weight taken	:	1000 grams

Date: 25-01-18

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	151	183	18.3	81.7	60-95	75-100	85-100	95-100
4	1.18 mm	198	381	38.1	61.9	30-70	55-90	75-100	90-100
5	600 micron	171	552	55.2	44.8	15-34	35-59	60-79	80-100
6	300 micron	185	737	73.7	26.3	5-20	8-30	12-40	15-50
7	150 micron	177	914	91.4	8.6	0-10	0-10	0-10	0-15
8	Pan	86	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-01-22-05** **Date: 25-01-18**

Sample ID No : 2018-01-22-05/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.32	–
2	Specific Gravity	2.54	–
3	Material finer than 75 micron(%)	7.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-22-05** **Date: 25-01-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi layout charch road and surrounding areas in Ward no.01 of Yelahanka Sub division.
Agency	:	Sri.B.P. Mahesh, No.58 B.P. Linganna Building, 7th cross, Chandramouleshwara layout, Hunasamaranahalli, Bangalore-562157.
Customer's Reference	:	EE(YNK.D)E-PMT-15/W.O/104/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-18
Sample ID No	:	2018-01-22-05/01
Sample Type	:	Dalmia 53grade cement
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	23-01-18

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.26	–
2	Finess by Air permeablity method (m^2/kg, Min)	259.82	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-01-22-05** **Date: 20-02-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi layout charch road and surrounding areas in Ward no.01 of Yelahanka Sub division.
Agency	:	Sri.B.P. Mahesh, No.58 B.P. Linganna Building, 7th cross, Chandramouleshwara layout, Hunasamaranahalli, Bangalore-562157.
Customer's Reference	:	EE(YNK.D)E-PMT-15/W.O/104/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-18
Sample ID No	:	2018-01-22-05/01
Sample Type	:	Dalmia 53grade cement
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	23-01-18

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-22-05** **Date: 25-01-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi layout charch road and surrounding areas in Ward no.01 of Yelahanka Sub division.
Agency	:	Sri.B.P. Mahesh, No.58 B.P. Linganna Building, 7th cross, Chandramouleshwara layout, Hunasamaranahalli, Bangalore-562157.
Customer Reference	:	EE(YNK.D)E-PMT-15/W.O/104/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-01-18
Sample ID No	:	2018-01-22-05/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	235	235	4.7	95.3	90-100
3	10 mm	2738	2973	59.5	40.5	25-55
4	4.75 mm	1859	4832	96.6	3.4	0-10
5	Pan	168	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-01-22-05

Sample ID No : 2018-01-22-05/02(b)

Date: 25-01-18

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	23.3	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-01-22-05** **Date: 25-01-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi layout charch road and surrounding areas in Ward no.01 of Yelahanka Sub division.
Agency	:	Sri.B.P. Mahesh, No.58 B.P. Linganna Building, 7th cross, Chandramouleshwara layout, Hunasamaranahalli, Bangalore-562157.
Customer's Reference	:	EE(YNK.D)E-PMT-15/W.O/104/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	22-01-18
Sample ID No	:	2018-01-22-05/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-01-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	392	392	2.6	97.4	90-100
3	20 mm	6184	6576	43.8	56.2	30-70
4	10 mm	4620	11196	74.6	25.4	10-35
5	4.75 mm	3274	14470	96.5	3.5	0-5
6	Pan	530	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-22-05** **Date: 25-01-18**

Sample ID No : 2018-01-22-05/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.8	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.22	–

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-01-24-01** **Date: 26-01-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi layout charch road and surrounding areas in Ward no.01 of Yelahanka Sub division.
Agency	:	Sri.B.P. Mahesh, No.58 B.P. Linganna Building, 7th cross, Chandramouleshwara layout, Hunasamaranahalli, Bangalore-562157.
Customer's Reference	:	EE(YNK.D)E-PMT-15/W.O/104/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-01-18
Sample ID No	:	2018-01-24-01/01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	25-01-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.389	522	635	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.608	548	655	19.0%	Satisfactory	Satisfactory
3	JSW	Fe500	12	0.882	573	682	19.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2018-01-24-01** **Date: 28-01-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Surabhi layout charch road and surrounding areas in Ward no.01 of Yelahanka Sub division.
Agency	:	Sri.B.P. Mahesh, No.58 B.P. Linganna Building, 7th cross, Chandramouleshwara layout, Hunasamaranahalli, Bangalore-562157.
Customer's Reference	:	EE(YNK.D)E-PMT-15/W.O/104/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-01-18
Sample ID No	:	2018-01-24-01/02(a)
Sample Type /Size	:	100mm Thick Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	24/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.26	100.26	1.426	4448	76.8	17.3	16.1	20.1
2	Cover Slab-2	75.41	100.41	1.378	4465	73.9	16.5	15.4	19.2
3	Cover Slab-3	75.33	100.27	1.392	4456	79.3	17.8	16.6	20.7

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-01-24-01 **Date: 28-01-18**

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Surabhi layout charch road and surrounding areas in Ward no.01 of Yelahanka Sub division.

Agency : Sri.B.P. Mahesh, No.58 B.P. Linganna Building, 7th cross, Chandramouleshwara layout, Hunasamaranahalli, Bangalore-562157.

Customer's Reference : EE(YNK.D)E-PMT-15/W.O/104/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-01-18

Sample ID No : 2018-01-24-01/02(b)

Sample Type /Size : 200mm Thick Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 24/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.36	200.09	2.378	17753	295.9	16.7	16.7	20.8
2	Cover Slab-2	150.29	200.17	2.421	17737	292.3	16.5	16.5	20.6
3	Cover Slab-3	150.42	200.31	2.393	17767	301.5	17.0	17.0	21.2

Note:

The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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